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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number to be assigned 10/182284  
 Filing Date February 18, 2004  
 First Named Inventor John Santhoff et al.  
 Art Unit to be assigned 2666  
 Examiner Name to be assigned Melanie Jagannathan  
 Attorney Docket Number 048CIP2-121

Sheet 1 of 4**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
mo		US- 3,668,639	06-06-1972	Harmuth	
mo		US- 3,678,204	07-18-1972	Harmuth	
mo		US- 3,728,632	04-17-1973	Ross	
mo		US- 4,641,317	02-03-1987	Fullerton	
mo		US- 4,979,186	12-18-1990	Fullerton	
mo		US- 5,146,616	09-08-1992	Tang et al.	
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mo		US- 5,677,927	10-14-1997	Fullerton et al.	
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mo		US- 5,748,891	05-05-1998	Fleming et al.	
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
mo		WO 01/39451 A1	05-31-2001	Multispectral Solutions, Inc		/
mo		WO 01/93434 A2	12-06-2001	XtremeSpectrum, Inc		
mo		WO 02/31986 A2	04-18-2002	XtremeSpectrum, Inc		
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Examiner Signature Melanie Jagannathan Date Considered 7/9/05

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Examiner Name	to be assigned melanie Jaganathan
Attorney Docket Number	048CIP2-121

Sheet 2

of 4

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ms		US- 6,026,125	02-15-2000	Larrick et al.	
ms		US- 6,690,741	02-10-2004	Frederick et al.	
ms		US- 2001/0033610 A1	10-25-2001	Chastain	
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		Filing Date	February 18, 2004
		First Named Inventor	John Santhoff et al.
		Art Unit	to be assigned 2606
		Examiner Name	to be assigned Melanie Tajanathan
Sheet 3	of 4	Attorney Docket Number	048CIP2-121

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
ms		DI WU, PREDRAG SPASOJEVIC, IVAN SESKAR, "Multipath Beamforming UWB Signal Design Based on Ternary Sequences", 40th Annual Allerton Conference, August 26, 2002, WINLAB, Rutgers University, Camden, New Jersey, USA.	
ms		HENNING F. HARMUTH, "Applications of Walsh functions in communications", IEEE Spectrum, November 1969, pgs. 82-91, USA.	
ms		ROBERT FLEMING, CHERIE KUSHER, "Integrated, Low-Power, Ultra-Wideband Transceivers for Distributed Position Location and Communication", Semi-Annual Technical Report Contract J-BFI-94-058, Aether Wire & Location, Inc. July 1995, Nicasio, CA, USA.	
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ms		ROBERT A. SCHOLTZ, P. VIJAY KUMAR, CARLOS J. CORRADA-BRAVO, "Signal Design for Ultra-Wideband Radio", Department of Electrical Engineering, University of Southern California, Los Angeles, CA, USA.	
ms		MOE Z. WIN, ZORAN A. KOSTIC, "Impact of Spreading Bandwidth on Rake Reception in Dense Multipath Channels", IEEE Journal on Selected Areas on Communications, Vol. 17, No. 10, pages 1794-1806, October 1999, USA.	
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Examiner Signature	Melanie Tajanathan	Date Considered	7/9/05
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Sheet 4	of 4	Attorney Docket Number	048CIP2-121

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
ms		MULTISPECTRAL SOLUTIONS, INC., Revision of Part 15 of the Commission's Rules Regarding Ultra-Wideband Transmission Systems* September 12, 2000.	
ms		ANNA SCAGLIONE, "Differential Direct Sequence Spread Spectrum for Ultra-Wideband Low Power Wireless Microsystems", University of New Mexico, Dept. of EECE, Albuquerque, NM, USA.	
ms		DAVID WRIGHT & RYAN WINFIELD-WOODINGS, An efficient 2.4 - GHz wireless net for less, EE Times, October 31, 2003, 3 pages.	
ms		SIEMENS & TEXAS INSTRUMENTS, Generalised Hierarchical Golay Sequence for PSC with low complexity correlation using pruned efficient Golay correlators, 6 pages.	
ms		ANUJ BATRA ET AL. & TEXAS INSTRUMENTS ET AL., Multi-band OFDM Physical Layer Proposal for IEEE 802.15 Task Group 3a. July 21, 2003, 71 pages.	
ms		DAVID CYPHER, Coexistence, Interoperability and Other Terms, September 2000, 18 pages.	

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